#### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 74-3,704

Source: 1FWO

Date Processed by STIC: 11 04 2005

# ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 11/04/2005 PATENT APPLICATION: US/10/743,704 TIME: 13:29:08

Input Set : N:\Crf3\RULE60\10743704.raw
Output Set: N:\CRF4\11042005\J743704.raw

1 <110> APPLICANT: KEITH, TIM

```
LITTLE, RANDALL D.
      3
              EERDEWEGH, PAUL VAN
      4
              DUPUIS, JOSEE
      5
              DEL MASTRO, RICHARD L.
      6
              SIMON, JASON
              ALLEN, KRISTINA
      7
              PANDIT, SUNIL
      9 <120> TITLE OF INVENTION: NOVEL HUMAN GENES RELATING TO RESPIRATORY DISEASES AND
OBESITY
     10 <130> FILE REFERENCE: 2976-4037
     11 <140> CURRENT APPLICATION NUMBER: US/10/743,704
     12 <141> CURRENT FILING DATE: 2003-12-22
     13 <150> PRIOR APPLICATION NUMBER: US/09/627,465
     14 <151> PRIOR FILING DATE: 2000-07-28
     15 <150> PRIOR APPLICATION NUMBER: 60/211,749
     16 <151> PRIOR FILING DATE: 2000-06-14
     17 <150> PRIOR APPLICATION NUMBER: 60/146,336
     18 <151> PRIOR FILING DATE: 1999-07-30
     19 <160> NUMBER OF SEQ ID NOS: 51
     20 <170> SOFTWARE: PatentIn Ver 2.1
     22 <210> SEO ID NO: 1
     23 <211> LENGTH: 10304
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Homo sapiens
     26 <220> FEATURE:
     27 <221> NAME/KEY: modified base
     28 <222> LOCATION: (267)
     29 <223> OTHER INFORMATION: a, t, c or q
     30 <400> SEQUENCE: 1
     31
              egggegtgta tatetettea tagagagege teagacageg tgegttaate tgegtegata
                                                                                       60
     32
              tatagagatc tttatcactg agtagataga acgtacatga atgtacgaac agtccagacg
                                                                                      120
     33
              agtaacttga ctaggataag atagacagta ccaactaatg agacaagaag agggaatcat
                                                                                      180
     34
              atagaatcat gtagtctgag tctagcgagt gtcgacatga tcacaagcga aatacagact
                                                                                      240
W--> 35
              atgagaagag gtagaaataa taagtanact gagaagagag gtcatatgta catacaaatc
                                                                                      300
     36
              agtaaagcaa tagaaattga atacattata agccacagtt acagaattag cctaatttaa
                                                                                      360
     37
              caaccatggc aagcgagtta tatcaaacat agaagagtaa actctatcga ccatgggtag
                                                                                      420
     38
              gaacgaataa aggcgtcgag aagacaataa gaatgcgtgt taaacagcaa tacaagagaa
                                                                                      480
     39
              tagcaccact gaagcagacc aaaggegtca ceggggaagt agggaagagg cacctcacaa
                                                                                      540
     40
              ggagaggaaa gggcagtcct gattttgaaa atttcagtga aaagacagtg ttgttcccgg
                                                                                      600
     41
              aggcagetta gtgatecege ategaetetg aagaggaeee tgagggtagg ggatttttgg
                                                                                      660
     42
              gcctgaccgg cctatgctga acgcccaccg ggaattcagg gagaaacacg gggccccggc
                                                                                      720
     43
              ttccaggaga gcagccaggc cacagccctg aggacgggca aaccccaccc aggcacggtg
                                                                                      780
     44
              agagggagge egeceaggee tggggeetgg eggeagggga tgaagtggae eagageeeeg
                                                                                      840
```

### RAW SEQUENCE LISTING DATE: 11/04/2005 PATENT APPLICATION: US/10/743,704 TIME: 13:29:08

4.5							000
45			cagtgagcct				900
46			gatgccagcc				960
47			aagggacccg				1020
48			ctgcccacgc				1080
49			gaggggacac				1140
50			gagctgccca				1200
51			caggaaggga				1260
52			cgagctgccc				1320
53			caggaaggga				1380
54			acgagctgcc				1440
55			tccaggaggg				1500
56			ttcacgagct				1560
57			tctccaggaa				1620
58			gtccacgagc				1680
59			cctctccagg				1740
60			cgggtccacg				1800
61	ccgggttcac	gagctgccca	cgtcctctcc	aggagggac	accgggttca	cgagctgccc	1860
62	acgccctctc	caggaaggga	ccccgggttc	atgagctgcc	cacgtcctct	ccaggaaggg	1920
63	acccgggtcc	acgaactgcc	cacgccctct	ccaggagggg	acccgggtcc	acgagctgcc	1980
64	cacgtcgtca	acgggaaggg	acccgggtcc	acgagctgcc	cacgtcctct	ccaggaaggg	2040
65	acccgggtcc	acgaactgcc	cacgcgctct	ccaggagggg	acaccgggtt	cacgagctgc	2100
66	ccacgccctc	tccaggaagg	gaccccgggt	tcacgagctg	cccacgtcct	ctccaggagg	2160
67	ggacaccggg	ttcacgagct	gcccacgtcc	tctccaggag	gggacaccgg	gttcacgagc	2220
68	tgcccacgcc	ctctccagga	ggggacaccg	ggttcacgag	ctgcccacgt	cctctccagg	2280
69 .	aagggacccg	ggtccacgag	ctgcccacgt	cctctccagg	aggggacacc	gggttcacga	2340
70	gctgcccacg	cactttccag	gaagggaccc	cgggttcagg	tctcctgccg	gcccacatcg	2400
71	tgcctttgtg	taaatcagaa	gaaagatgag	gaacaggccc	tcctctctct	ccaggcaggc	2460
72	tttggtggag	gggctggatc	tcctgccgca	ccttccctgg	cagggcaccc	tgtgcttgag	2520
73	ccccagaact	gcaggcggcc	ggcagagaag	gggtccatga	tggcgcctcg	gtgcgcagcc	2580
74	ttggacctgc	ccccatggac	ctgggtgagg	acttcccagc	ccttccccgg	ctccagctgc	2640
75	tctccctaag	ccgcctcacc	ccttcctcgg	gcagggggca	gtggacgagg	gttccgtccc	2700
76	tccaggggat	gctcccaaac	ccctgccagg	acttggcaga	tccggcctct	catcttggca	2760
77	gctagatggt	gggacgggat	catcgtggtg	gctttaattt	gcatttctct	gatgactgat	2820
78	gatttcgagc	atctcttcat	atgtttgctg	gctttgggga	tagagatatt	tcttcctaaa	2880
79	gcaaaacttg	attatgtcat	ttctgcttca	agatgccagt	gatgcctgag	gtctgcaggg	2940
80	cagtgcatac	gctcaccgcc	tggccgctca	ggagcctgtg	cttgaccccc	aaatccgccc	3000
81	cccaactccc	tgttaccggc	tcactccttc	catgaggggc	cttccccagg	gacagccgat	3060
82	gctctcctga	tggctcctgc	ccttgcagag	tgctgcccc	gcctgcccac	ctggcctgga	3120
83			gggctctgcg				3180
84	aacctcccgg	ctcttcccac	tcgggaaagg	aaggctctgg	gcatggaggt	cggccaggcc	3240
85	ccatccccgt	accctggccc	ttcttcctgc	ttcctgtttg	tcactgcccc	ggggcctttg	3300
86			gtgagtgtcc				3360
87			tctctctcca				3420
88			gcagcatcac				3480
89			aacacaccca				3540
90			agaggacaca				3600
91			tctggacgtg				3660
92			cacttgagcc				3720
93			ctatctcaaa			-	3780
	<del>-</del>					_	

## RAW SEQUENCE LISTING DATE: 11/04/2005 PATENT APPLICATION: US/10/743,704 TIME: 13:29:08

94	ctataataaa	cacottoatt	acatottaga	accccctaat	atastssata	asaatttatt	3840
95	ctgtagtcac ccctgtgacc			-	-	-	3900
96						_	3960
97	tgtgagttcc						4020
98	gcctggctta gggcttgccc						4020
99							
100	tctctctc						4140
101					atattttcat		4200
102					ggacagtgct		4260 4320
102					tttggatata		
103					ttgaggaacc		4380
104					gtgcaacggg		4440 4500
106					gacagtcatc		
107					tgattagtga		4560
107					agacacgcag		4620
108					gagttgaatt		4680
110					acccccgcct		4740
111					ggttgccttt		4800
					tacccccacc		4860
112					ggttgccttt		4920
113				_	ctgtctattt		4980
114					ccggaccagc		5040
115					gtcttaggtt		5100
116					gccctttcat		5160
117				_	cgtgtgtcct		5220
118					cctggccccc		5280
119					tggcatgaat		5340
120					tttatttttg		5400
121					ggctcactgc		5460
122					agctgggatt		5520
123					acagagtttc		5580
124					ccacttcggc		5640
125					tttttttc		5700
126					tggctcactg		5760
127					ggagctggga		5820
128					tttactagag		5880
129					tgatcctccc		5940
130					gccatggata		6000
131					ctgagggggg		6060
132					atacatacag		6120
133					gcagtcattg		6180
134					gattgaagtg		6240
135					ccatctaatt		6300
136					cctccccta		6360
137	_			_	ctctgtggat		6420
138					ctctttcact		6480
139					tcctttttt		6540
140					tgatctcggc		6600
141					cccaagtagc		6660
142	ggtttgcacc	accatgtcct	gctaattttt	tttttttgt	atttttaata	gagacagggt	6720

## RAW SEQUENCE LISTING DATE: 11/04/2005 PATENT APPLICATION: US/10/743,704 TIME: 13:29:08

143		tggccaggct		-		_	6780
144		tgttgggatt					6840
145		atagtctgct					6900
146		tgcttctgct					6960
147		gcatacgcct					7020
148	acgttctgag	gagccgccag	gcgttttaac	acagtgactg	caccatttca	cattcctgcc	7080
149		gagaattcca				_	7140
150	aaaagaaaca	tagccatcta	agtggatgtg	gagcagactg	tccctctggt	ttgggtttgc	7200
151	gttgctttta	tggctcatga	tgtctgagtc	tctctccatg	tgctcatggg	gattcgtata	7260
152	tctactttgg	gaaatgctta	ttcaagtcct	ttgtccacat	ttgactgggt	tgcttgtctt	7320
153	tttatttcat	ttactacgat	gacagcccct	acatggaagg	attttgtttt	tgtaatccca	7380
154	ttaccccgag	gtgagaatga	attgccagtt	gctcaaggcc	ttcagctctt	agggaggagc	7440
155	ctggacctgg	agctgctccg	ggctctggca	aagctccaat	cccggcctca	gtccttgagg	7500
156	cctggtcctc	acccagcttt	ctccttccac	cgtgccatgg	aggaagcccg	acctccctgc	7560
157	acggctggcc	tggggttgtt	cacgactgag	tccaggtgtc	cccagaacgg	atgtcactgg	7620
158	tcacagtgtt	cctggtaata	ggtgacccca	ggcacagggt	gttcctgatc	ataggtaacc	7680
159	caggcacagg	tgtcccagtc	acaggtgtct	ccaggcacag	gtgtccccag	tcacaggtgt	7740
160	cccaggtcac	aggcgtcccc	aggcacaggt	gtccctggtc	acagatgtcc	ccaggcacag	7800
161	gtgtcccagg	cacaggtgtc	tccaggcaca	ggcgtcccag	gtcacaggtg	tccccggtca	7860
162	caggtgtccc	tggtcacagg	tgtctccagg	cacaggtgtc	cctggtcaca	ggtgtccccg	7920
163	gtcacaggtg	tcccaggtca	caggtgtccc	caggcacagg	tgtccccggt	cacaggtgtc	7980
164	tccggtcaca	ggtgtcccca	ggcataggtg	tccctggtca	caggcaccca	tggtcacagg	8040
165	tgtccccagg	cacaggtgtc	ctggtcacag	gtgtcccagt	cacagctgtc	cccggtcaca	8100
166	ggtgtctcca	ggcacaggtg	ttcccggtca	caggtgtccc	caggcacagg	tgtcccggtc	8160
167	acaggtgtcc	ccaggcacag	gagttcctgg	tcacaggtgt	ccccaggcac	aggcagccac	8220
168	aggaagccga	tgcatggaac	agagagaaac	agagacacaa	agaaaagaga	gtgagagaca	8280
169	gaagaaatgg	gaaacagaaa	tggttggaga	aaagcatcca	gtagacatga	atagagagga	8340
170	agaggaggag	ggggacgggc	agcagagacc	cagggaggct	gcagtgcctg	gacccctcac	8400
171	cacactttcc	attctgccct	tcctggggaa	gacttccaga	aaagtgggcc	aggctgaggg	8460
172		acacagaggc					8520
173	gtggtcagct	caaagcctct	ggagtcaagg	ataaatcctc	tgacctttga	cctccgacct	8580
174	ccctctcctt	ggctccaggc	tccccacaca	gctttccatg	accaaatctt	acaggaagct	8640
175	gaagggcagt	ccggtgaggg	tctgtaagtc	accgccaggg	cacagaacgg	aggttggcag	8700
176	gggaggagag	acccctgggc	tgccgtctgc	cttcaccctg	cacatcaggc	ctgtgtgggg	8760
177	gtgtcaccat	ccttcactcc	ctggcatctg	atccaagatt	acgcctggca	gggcctctcc	8820
178		gctccgggaa					8880
179	acaggggtgc	ccccttccag	ggagggagca	gctctcccac	atggcagaac	actcatttcc	8940
180		ctcctgagca					9000
181	agaggccctg	ggggatgggc	cccttgccct	ggcctcccct	gcaaggcagc	tecegeceeg	9060
182		tctgagagcg					9120
183	cagaacggcc	tgcactgtcc	ctccccgacc	tgcacccaga	catggacact	caccctcccc	9180
184	aacccctgag	acattcaggt	ccacactggg	gcctgggccc	cctcaagttg	catggggact	9240
185	ggggtgcctt	ggcgcctctt	ctgtgagtat	tcctacacac	agagcctgct	tcctctccaa	9300
186	cctgcaccta	aacatggaca	ctcaccatcc	ccaacccccg	agactttcag	gtccacactg	9360
187		cccctcaagt					9420
188	gttcctacac	acagagcctg	cctcctgtcc	gggtgatgtt	gggtcgtcct	ccgcctctgg	9480
189	gagcacctgc	aggggctgtt	gctctgggct	ccctggagat	gcaagccccc	gggcctgcct	9540
190	gcttgttatg	tgtgtattca	ttaagcccat	gccagcgggg	gtctccgcaa	gaaacaggca	9600
191	cagtgctgtg	agggggctaa	tgaggcctga	tttctccagg	ggcaggcagg	acgggagccc	9660

RAW SEQUENCE LISTING DATE: 11/04/2005
PATENT APPLICATION: US/10/743,704 TIME: 13:29:08

	ggcaagggca aggggatgca tggggctgct gatgatggcg gatgatgatg gatggtgctg ggtgatgatg gatgatgatg catggtgatg	agggagaag gacaggaag gctgctgag atggagatg gtgacggtg atgatgatg gtgatgatg atgatgatg atgatggtg atgatggtg	cc agggatgtgd gt tagtggtgd gt ggagaggaag gc ccaactggga ga ttatgatggt gg tgatggtgat gg tgatgctgat gg tgatgatggt ga tggtgatgat ga tggtgatgat ga tggtgatgat	agaacatggc g gcggttctcc a accagagcac gatgatgatg ggtgatgatg ggtgatggtg gctgatggtg gatgctgatg gatgctgatg	taaacgaggc aggagcccta aggataatgg gtgatggtgg gtgatgatgg acggtgatga gtggtggtga gtgatgatgg atggtggtga	agccatggaa ggacctgctc tgacactggt tgatgatggt tgacggtggt tgatggtgac tgatggtgat tgatggtgat	9720 9780 9840 9900 9960 10020 10080 10140 10200 10260 10304
	TYPE: DNA						
207 <213>	ORGANISM:	Homo sapie	ens				
208 <220>							
	NAME/KEY:						
	LOCATION:		<b>'</b> )		·		•
211 <400>	SEQUENCE:						47
212			gt cct ctc o rg Pro Leu (			_	47
214	1 1	Cys FIO A	5 FIO Deu C	10	thir Pro Gry	15	
215	_	c atc atc	tcc agg aag		too acq aq		95
216			Ser Arg Lys			_	
217		20.	51	25		30	
218	cgt cct ct	c cag gaa	agg acc cgg	gtc cac gag	ctg gcc acg	g tee tet	143
219			Arg Thr Arg				•
220		3 <sup>.</sup> 5		40	45	-	
221			ggg tcc acg				191
222			Gly Ser Thr	Ser Cys Pro	_	ı Gln Glu	
223 224		0	55	<del>-</del>	60		220
225			cga gct gcc Arg Ala Ala	-			239
226	65	o dry ber	70	nis vai nea	75	GIY IIO	
227		c gag ctg	ccc acg tcc	tct cca qqa	. =	gaa tcc	287
228			Pro Thr Ser				
229	80		85	90	_	95	
230	acg aac tg	c cca cgt	cct ctc cag	gaa ggg acc	ccg ggt tca	a cga gct	335
231	Thr Asn Cy		Pro Leu Gln		Pro Gly Ser		
232		100		105		110	
233			agg agg gga				383
234	Ala His Va		Arg Arg Gly				
235 236	aga tat aa	115	ana aaa aaa	120	125		431
237			gac ccc ggg Asp Pro Gly		_		43T
238	13		135	INC NOT DEL	140	, bea	
239			gtc cac gaa	ctq ccc acq		a qqa qqq	479
240			Val His Glu				
241	145	_	150		155	- <del>-</del>	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/04/2005 PATENT APPLICATION: US/10/743,704 TIME: 13:29:09

Input Set : N:\Crf3\RULE60\10743704.raw
Output Set: N:\CRF4\11042005\J743704.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 267 Seq#:45; N Pos. 267

#### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

VERIFICATION SUMMARY

. . .

DATE: 11/04/2005

PATENT APPLICATION: US/10/743,704

TIME: 13:29:09

Input Set : N:\Crf3\RULE60\10743704.raw
Output Set: N:\CRF4\11042005\J743704.raw

L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240 L:1327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:240